

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for delivering a substance to a bone, the device comprising:

(a) a bone screw comprising two ends connected by a shaft, wherein the shaft is cannulated along at least a portion of its length;

(b) one or more bone-screw fenestrations disposed along the cannulated portion of the bone-screw shaft;

(c) an insert disposed inside the cannulated bone-screw shaft, wherein the insert comprises two ends connected by a shaft and is cannulated along at least a portion of its length; and

(d) one or more insert fenestrations disposed along the cannulated portion of the insert between the two ends of the insert, wherein the insert is movable between:

a first position wherein none of the one or more insert fenestrations align with the one or more bone-screw fenestrations such that the insert substantially prevents material from entering the cannulated portion of the bone-screw through the one or more bone-screw fenestrations; completely blocks all of the bone-screw fenestrations; and

a second position wherein the insert provides a delivery pathway for the substance between at least one end of the bone screw and the at least one bone-screw fenestration.

2. (Previously Presented) The device of claim 1 wherein at least one insert fenestration aligns with at least one bone-screw fenestration in the second position.

3. (Previously Presented) The device of claim 1 wherein the insert is rigid.

4. (Original) The device of claim 1 wherein the cannulated portion of the bone-screw shaft extends through the entire length of the bone screw.

5. (Original) The device of claim 1 wherein the bone screw is a fixation screw.

6. (Original) The device of claim 1 wherein one end of the bone screw is self-tapping.

7. (Original) The device of claim 1 wherein the bone screw comprises a material selected from the group consisting of titanium and its alloys, tantalum and its alloys, nickel-cadmium and its alloys, steel and its alloys, plastics, absorbable materials, resorbable materials, polyamino acids, polylactide, polyglycolide, hydroxylapatite, and tricalciumphosphate.

8. (Original) The device of claim 1 wherein the insert comprises a material selected from the group consisting of titanium and its alloys, tantalum and its alloys, nickel-cadmium and its alloys, steel and its alloys, plastics, absorbable materials, resorbable materials, polyamino acids, polylactide, polyglycolide, hydroxylapatite, and tricalciumphosphate.

9. (Original) The device of claim 1 further comprising a substance reservoir attached to at least one end of the bone screw.

10. (Original) The device of claim 9 wherein the reservoir is implanted subcutaneously.

11. (Original) The device of claim 1 further comprising a pump attached to at least one end of the bone screw.

12. (Original) The device of claim 11 wherein the pump is implanted subcutaneously.

13. (Currently Amended) A device for delivering a substance to a bone, the device comprising:

(a) a bone screw comprising two ends connected by a shaft, wherein the shaft is cannulated along at least a portion of its length;

(b) one or more bone-screw fenestrations disposed along the cannulated portion of the bone-screw shaft; and

(c) an insert disposed inside the cannulated bone-screw shaft such that the insert prevents at least some material from entering the cannulated portion of the bone screw through all of the one or more bone-screw fenestrations, ~~completely blocks all of the bone screw fenestrations,~~ wherein the insert comprises two ends connected by a shaft and is cannulated along at least a portion of its length, and further wherein the insert comprises a section between the two ends of the insert that is permeable to the substance to be delivered to the bone.

14. (Original) The device of claim 13 wherein the insert further comprises at least one insert fenestration disposed along the cannulated portion of the insert.

15. (Original) The device of claim 13 wherein the cannulated portion of the bone-screw shaft extends through the entire length of the bone screw.

16. (Original) The device of claim 13 wherein the bone screw is a fixation screw.

17. (Original) The device of claim 13 wherein one end of the bone screw is self-tapping.

18-29. (Cancelled)